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Water Supply Outlook For Idaho



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
APR. 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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BOISE, IDAHO

In Cooperation with

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR APRIL 1, 1980

The water supply outlook for the 1980 season is good to excellent for the Snake River and its tributaries upstream from the Salmon River, poor for the Clearwater and Spokane drainages, very poor for the Palouse River area and fair to good on the Priest and Pack Rivers. Forecasts of April through September runoff range from a low of 67% of normal for the Spokane River at Post Falls to a high of 118% of average for Salmon Falls Creek near San Jacinto, Nevada. The Owyhee Reservoir inflow in Eastern Oregon is forecast at 128% of normal.

Snow accumulation throughout the state was near to well above normal during April.

In Northern Idaho accumulated snowcover is well below normal on the Clearwater (74%) and Spokane (65%) watersheds, critically low at 39% on the Palouse and other low elevation streams, but near normal (94%) on the Priest River drainage.

In general, all watersheds south of the Snake River have above to well above normal snow pack, and the northern tributaries and upper Snake watershed in Wyoming are near to slightly above average. Snow water equivalent in southern Idaho ranged from 95% of average on the Little Lost watershed to 133% of normal on the Jordan Creek drainage, a tributary of the Owyhee River in Southwestern Idaho.

Reservoir storage in general is good with a combination of sixteen irrigation reservoirs in the Snake River Basin reporting 74% of capacity which is 104% of average storage.

The National Weather Service reported above normal precipitation for the third month in a row. March precipitation was 123% of normal for the state, ranging from 78% of average at Kellogg and 88% at Portland to 195% at Ashton and 212% at Boise. Temperatures for March averaged near normal across Idaho.

Upper Columbia Tributaries

Priest River: Snow water equivalent of the snow pack is 94% of average with April-July runoff forecast at 88% of normal.

Kootenai River: Snowcover of 83% of normal and April-September streamflow forecast at 84% of average at Leonia.

Clark Fork-Pend Oreille River: Water content of the snow pack is 81% of average and April-September streamflow forecast at 71 percent of normal at Whitehorse Rapids. A combination of storage in four large reservoirs in the drainages shows 54% of capacity and 106% of average stored water. Major reservoirs are expected to fill.

Spokane River: Snow water equivalent for the watershed is 65% of average with April-September runoff at Post Falls forecast for 67% of normal. Lake Coeur d'Alene contains only 39% of average stored water or 58% of normal; however the lake is expected to fill with normal spring conditions.

Lower Snake River Drainages

Palouse River: The water content of the snow pack is only 39% of normal, and well below average to critically low runoff can be expected.

Clearwater River: Snow water equivalent for the basin is 74% of average with April-September runoff at Spalding forecast at 69% of normal.

Salmon River: Snow pack water content for the entire basin stands at 98% of average, ranging from 72% at low elevations to 120% at high elevations. April-September runoff is forecast at 84% of normal for the Salmon River at Whitebird.

SNAKE RIVER BASIN - Northern Tributaries

Lost River: Snow water equivalent on the Little Lost watershed is 95% of average with 86% of normal runoff forecast for the April-September period. The snow pack on the Big Lost drainage is 104% with an April-September runoff forecast of 86% of average. Mackay Reservoir content is 66% of capacity or 89% of average storage and is expected to fill.

Wood Rivers: The water content of the snow pack on Fish Creek is 123% of normal with excellent runoff expected and the reservoir should fill. Snow cover on the Little Wood drainage is 115% of average, April-September runoff forecast at 112% of normal and the Little Wood Reservoir should fill. Snow water equivalent on the Big Wood Watershed is 97% of average with an April-September runoff forecast at 86% of normal. Magic Reservoir contents are 38% of average and 26% of capacity. Filling of the reservoir could be marginal depending on weather conditions and irrigation demands during the snow melt season.

Canyon Creek: Snow water equivalent on the watershed is 107% of normal with average or better runoff in prospect.

Boise River: Snow pack water content is 106% of average with normal runoff forecast for April-September period. The four reservoirs on the Boise system contain 101% of average or 64% of capacity stored water and can be expected to fill, depending somewhat on climatic conditions and irrigation demands during the melt season.

Payette River: Snow water equivalent for the watershed is 109% of average with April-September runoff forecast at 108% of normal. Contents of the two major reservoirs on the drainage is 95% of average or 46% of capacity and are expected to fill.

Weiser River: Snow pack water content is 98 percent of average with March-September runoff forecast at 98% of normal. Mann Creek reservoir is now full.

Snake River Basin - Southern Tributaries

Raft River: Water content of the snow pack is normal with slightly below average runoff in prospect.

Goose-Trapper Creeks: Snow water equivalent is at 110% of average with a March-September runoff forecast of 105% of normal. Oakley Reservoir contents are 129% of average or 57% of capacity and should fill depending upon climatic conditions and irrigation demands during the snow melt season.

Salmon Falls Creek: The snow pack has a water equivalent of 123% of normal and runoff is forecast at 116% of average for the March-September period. Salmon Falls Reservoir is only 30% of capacity and 85% of average. The reservoir will not fill, however adequate storage can be expected.

Bruneau River: Snow water equivalent for this watershed is 118% of average with March-September runoff forecast at 109% of normal.

Owyhee River: The watershed has an excellent snow pack of 148% of normal and the forecast for net inflow into Owyhee Reservoir for the April-September period is 128% of average.

Upper Snake River Basin

Upper Snake River: The Snake River Basin in Wyoming has an average snow pack of 95% with tributary values ranging from 85% of normal on the Pacific Creek drainage to 110% of average on the Salt River watershed. The April-September inflow to Palisades Reservoir is 87% of normal. Combined contents of the five major reservoirs on the Snake River above American Falls is 109% of average and 89% of capacity. All reservoirs are expected to fill.

Camas-Beaver Creeks: The watersheds above Mud Lake have an 88% of normal snow pack which should produce a slightly below average runoff.

Henry's Fork River: Water content of the snow pack on this drainage is 90% of normal with April-September runoff forecast at 86 percent of average.

Teton River: This basin has 95% of average snow water equivalent and seasonal flow is expected to be slightly below normal.

Willow Creek: Snow pack on the watershed is 113% of average with a probability of normal or above runoff. Ririe Reservoir is 52% of capacity and will fill.

Blackfoot River: Snow water equivalent on the drainage is 105% of normal and near average seasonal runoff is expected.

Portneuf River: The watershed has 114% of average snow pack and 97% of normal runoff is forecast for the March-September period. Reservoirs on the drainage are expected to fill.

Great Basin

Bear River: The watershed above Bear Lake has 122% of normal snow water equivalent and the April-September seasonal runoff is forecast at 105% of average. Bear Lake contents is 73% of capacity which is average for the first of April.

Montpelier Creek: Snow cover water equivalent is 104% of average with an April-September forecast of 118% of normal. Montpelier Creek Reservoir is expected to fill.

Mink Creek: The snow pack is 125% of average and above normal seasonal runoff is the outlook.

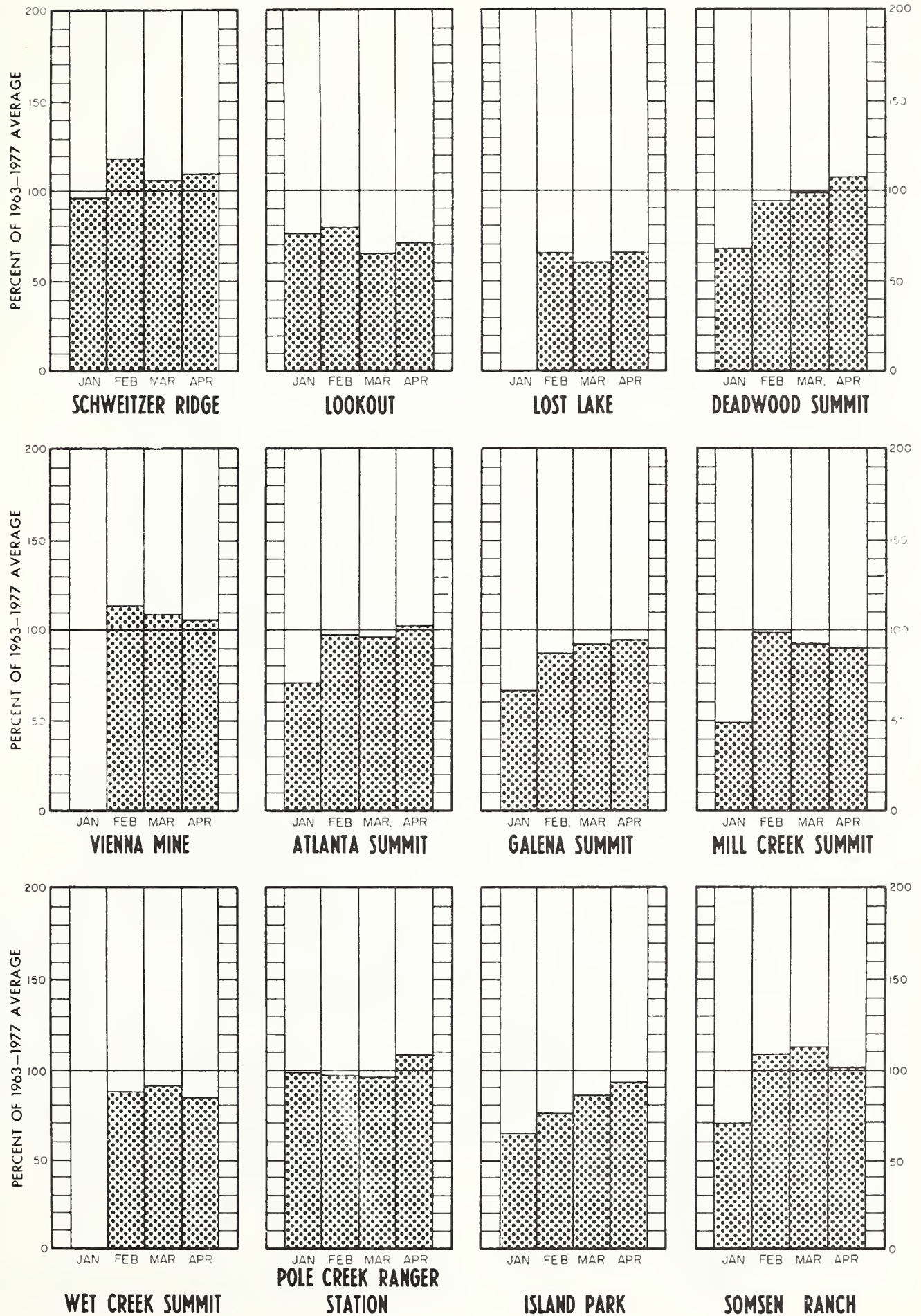
Cub River: The drainage has 126% of normal snow water equivalent with seasonal runoff forecast at 116% of average.

Malad River: Snow water equivalent for the watershed is 132% of average and above normal runoff can be expected.

SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1963 - 1977 15 Year Average

APRIL 1, 1980



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF	
		LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	37	116	83
Pend Oreille River	106	88	81
Clark Fork River	48	84	81
Flathead River	33	93	81
Priest River	4	128	94
Spokane River	15	78	65
Hayden Creek	4	50	--
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	5	41	39
Clearwater River	21	89	74
Salmon River	27-28	131	98
Lemhi River	6	117	96
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5-6	105	95
Big Lost River	8	157	104
Fish Creek	2	137	123
Little Wood River	4	167	115
Big Wood River	11-13	145	97
Boise River	17	149	106
Canyon Creek	3	165	107
Payette River	14	146	109
Weiser River	6	116	98
Mann Creek	4	117	99
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	5-7	119	100
Goose-Trapper Creek	3-5	112	110
Salmon Falls Creek	10	138	123
Bruneau River	5	143	118
Owyhee River	6	108	148
Jordan Creek	3	128	133
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Above Palisades Res.	34	93	95
Camas-Beaver Creeks	3	98	88
Henrys Fork River	11	90	90
Teton River	7	92	95
Willow Creek	5-9	104	113
Blackfoot River	3	98	105
Portneuf River	4	100	114
<u>GREAT BASIN</u>			
Bear River - Upper	6	121	122
Bear River - Lower	13	112	118
Montpelier Creek	6	97	104
Mink Creek	7	118	125
Cub River	3	110	126
Malad River	4-6	120	132

SNOW WATER DEPTHS



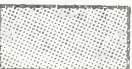


As percent of 1963 - 77 15 year average

APRIL 1, 1980

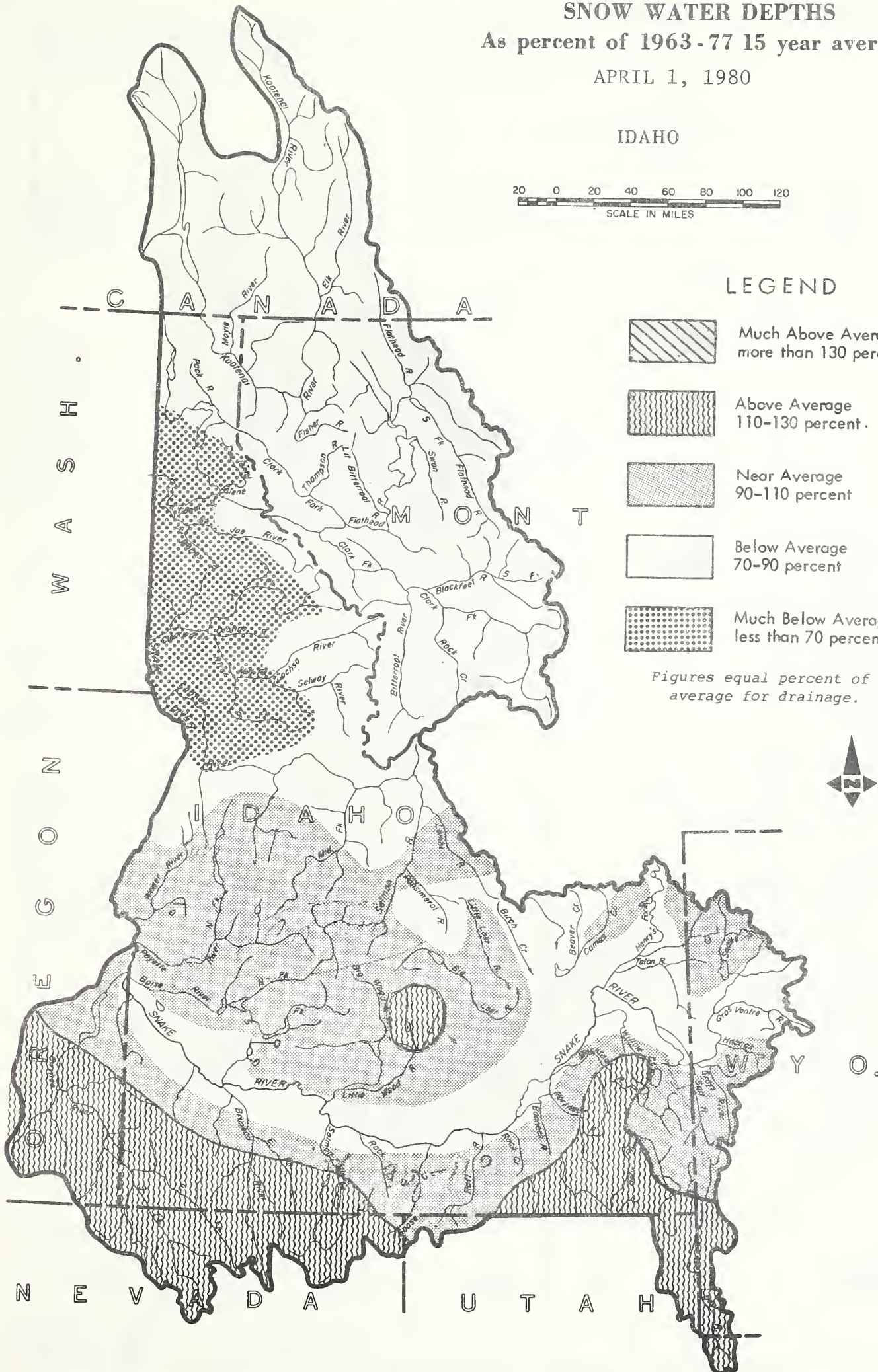
IDAHO

20 0 20 40 60 80 100 120
SCALE IN MILES

LEGEND

-  Much Above Average
more than 130 percent
-  Above Average
110-130 percent
-  Near Average
90-110 percent
-  Below Average
70-90 percent
-  Much Below Average
less than 70 percent

Figures equal percent of
average for drainage.



RESERVOIR STORAGE (1,000 Ac. Ft.)

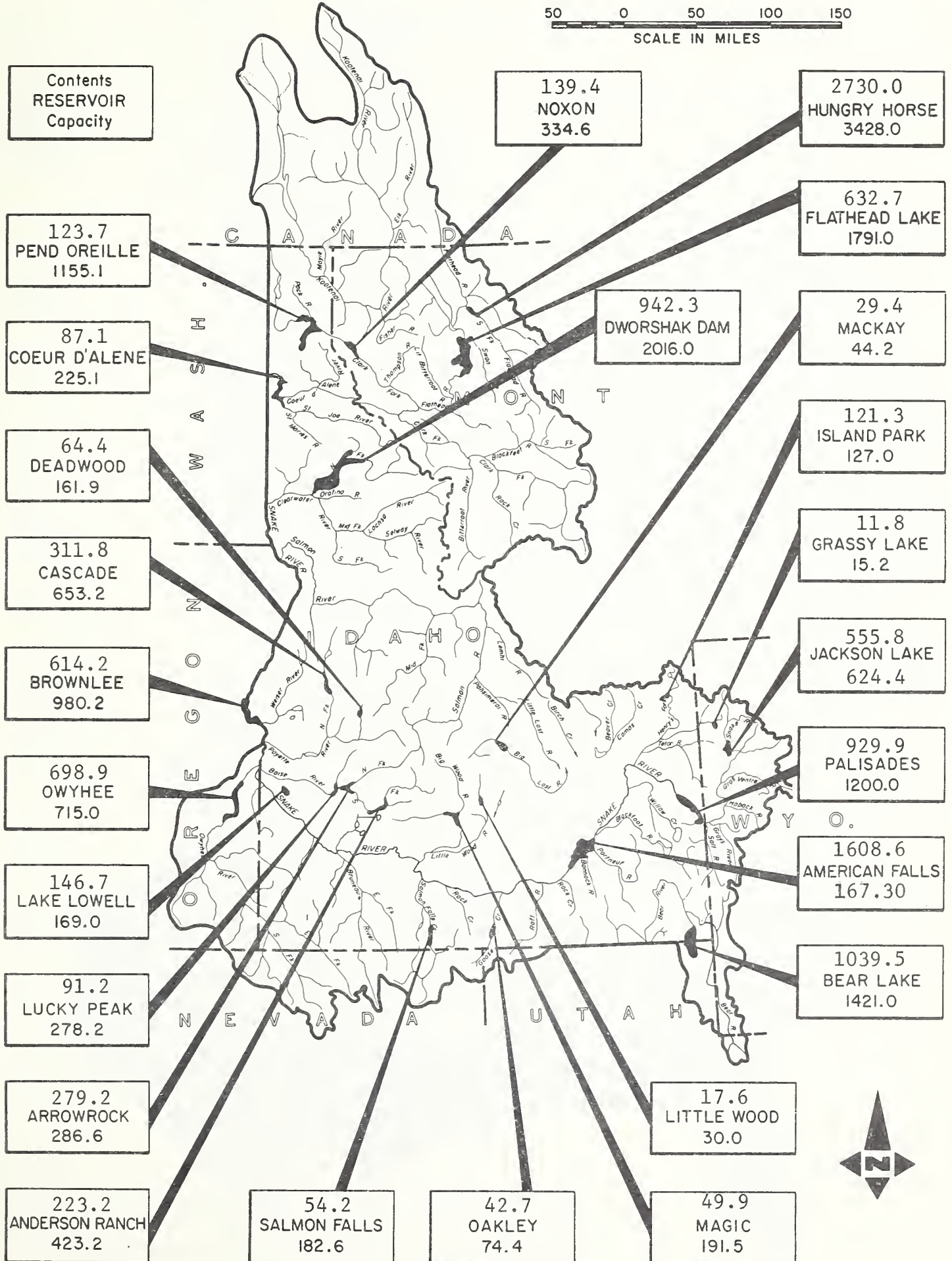
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2730.0	2187.0	2016.0
Flathead	1791.0	632.7	664.7	775.7
Pend Oreille	1155.1	123.7	168.1	432.9
Noxon	334.6	139.4	320.8	191.9
<u>Spokane</u>				
Coeur d'Alene	225.1	87.1	152.1	149.9
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	624.4	555.8	531.9	612.9
Palisades	1200.0	929.9	804.3	815.9
American Falls	1673.0	1608.6	1548.0	1390.8
Island Park	127.0	121.3	99.8	122.5
Grassy Lake	15.2	11.8	12.9	10.8
Brownlee	980.2	614.2	706.1	395.5
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	42.7	42.8	33.1
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	54.2	45.5	63.7
<u>Big Lost</u>				
Mackay	44.2	29.4	43.1	32.9
<u>Big Wood</u>				
Magic	191.5	49.9	145.6	129.9
<u>Little Wood</u>				
Little Wood	30.0	17.6	26.5	18.5
<u>Fish Creek</u>				
Carey Valley	14.4	4.7	6.9	--
<u>Boise</u>				
Anderson Ranch	423.2	223.2	327.4	248.5
Arrowrock	286.6	279.2	279.7	226.6
Lucky Peak	278.2	91.2	169.0	115.5
Lake Lowell (Deer Flat)	169.0	146.7	133.2	139.3
<u>Owyhee</u>				
Owyhee	715.0	698.9	650.1	553.2
<u>Payette</u>				
Cascade	653.2	311.8	351.4	305.4
Deadwood	161.9	64.4	88.3	92.0
<u>Weiser</u>				
Mann Creek	11.1	11.1	9.5	--
<u>Clearwater</u>				
Dworshak	2016.0	942.3	457.7	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear	1421.0	1036.2	1390.6	1039.5

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1980

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonia	(at)	7470	84	Apr-Sep	--	8858
		6500	84	Apr-Jul	--	7708
		5160	84	Apr-Jun	--	6144

PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	9780	71	Apr-Sep	--	13781
		8880	71	Apr-Jul	--	12519
		7520	71	Apr-Jun	--	10633

Priest River

Priest River	(at)	740	88	Apr-Jul	--	841
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SPOKANE RIVER

Post Falls	(at)	2000	67	Apr-Sep	--	2910
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St. Joe River

Calder	(at)	890	68	Apr-Sep	--	1309
		840	68	Apr-Jul	--	1238

SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran	(at)	780	86	Apr-Sep	--	903
Palisades Inflow		3350	87	Apr-Sep	--	3863
Heise	(nr)	3650	86	Apr-Sep	--	4247
Blackfoot	(nr)	3950	86	Apr-Jul	--	4579

Henrys Fork

Ashton	(nr)	620	84	Apr-Sep	--	737
Rexburg	(nr)	1320	86	Apr-Sep	--	1534

Portneuf River

Topaz	(at)	105	97	Mar-Sep	--	108
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Oakley Reservoir Inflow

38	105	Mar-Sep	--	36
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Salmon Falls Creek

San Jacinto	(nr)	110	116	Mar-Sep	--	95
		105	117	Mar-Jul	--	90
		100	118	Mar-Jun	--	85

Bruneau River

Hot Springs	(nr)	275	109	Mar-Sep	--	251
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(c) Assuming normal meteorological conditions.

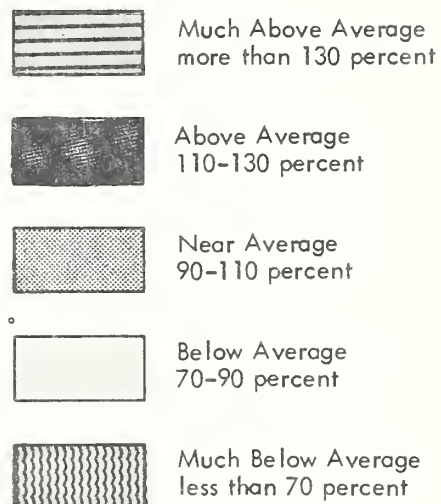
+ 1963-1977 period.

PROSPECTIVE STREAMFLOW
Based on Snow Surveys made on approximately
 APRIL 1, 1980

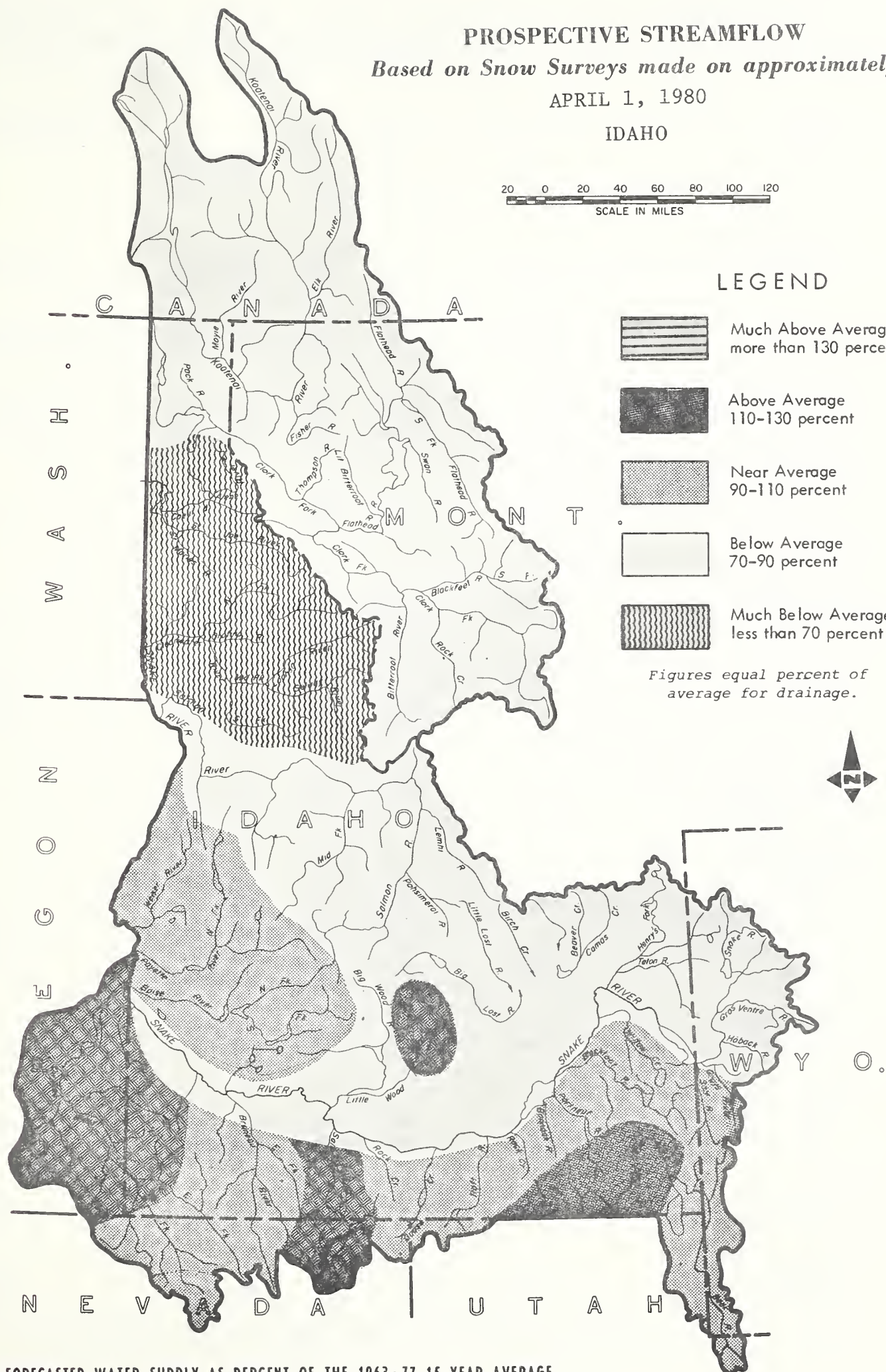
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20 0 20 40 60 80 100 120
 SCALE IN MILES

LEGEND



Figures equal percent of
 average for drainage.



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>Little Lost River</u>						
Howe	(nr)	38	86	Apr-Sep	--	44
Wet Creek	(bl)	36	88	Apr-Sep	--	41
		23	88	Apr-Jun	--	26
<u>Big Lost River</u>						
Howell	(at)	200	89	Apr-Sep	--	225
		135	88	Apr-Jun	--	154
Mackay	(nr)	175	86	Apr-Sep	--	204
<u>Big Wood River</u>						
Magic Reservoir		275	86	Apr-Sep	--	319
Inflow		290	87	Mar-Jul	--	332
<u>Little Wood River</u>						
Carey	(nr)	120	112	Apr-Sep	--	107
		100	115	Apr-Jun	--	87
<u>Boise River</u>						
Twin Springs	(nr)	750	102	Apr-Sep	--	733
		680	101	Apr-Jul	--	676
Boise	(nr)	1700	100	Apr-Sep	--	1695
		1370	100	Apr-Jun	--	1369
		1550	100	Apr-Jul	--	1545
<u>South Fork</u>						
Anderson Dam	(at)	620	100	Apr-Sep	--	622
<u>Owyhee River</u>						
Gold Cr., Nev.	(nr)	25	109	Apr-Jul	--	22
Owyhee, Nev.	(nr)	82	103	Apr-Jul	--	80
Lake Owyhee		500	128	Apr-Sep	--	332*
Net inflow		467	128	Apr-Jul	--	431*
Rome	(at)	462	128	Apr-Jul	--	361*
<u>Payette River</u>						
Horseshoe Bend	(nr)	2000	108	Apr-Sep	--	1860
<u>North Fork</u>						
Cascade	(at)	620	110	Apr-Sep	--	564
Banks	(nr)	790	109	Apr-Sep	--	726
<u>Weiser River</u>						
Weiser	(nr)	550	98	Mar-Sep	--	558
<u>Salmon River</u>						
Whitebird	(at)	6050	84	Apr-Sep	--	7196

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

Clearwater River
Spalding*

(at) 5980 69 Apr-Sep -- 8672

GREAT BASIN

BEAR RIVER

Harer (at) 350 105 Apr-Sep -- 332

Montpelier Creek
Montpelier

(nr) 14.6 118 Apr-Sep -- 12.4*

Cub River

Preston (nr) 58 116 Apr-Sep -- 50.0

(c) Assuming normal meteorological conditions.

[†] 1963-1977 period.

* National Weather Service forecast.

VALLEY PRECIPITATION 1/
Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter March 1980		Fall-Winter Nov. 79 - Mar. 80	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	1.87	+ .13	11.32	- 2.07
Flathead	1.58	+ .05	8.47	- 2.26
Clark Fork	1.33	+ .11	6.34	- 1.66
Pend Oreille-Spokane	2.45	- .08	13.37	- 4.18
Upper Snake	2.22	+ .70	9.19	- .92
Snake River Plain	.79	+ .01	5.52	+ .44
Salmon-Payette-Boise	2.08	+ .35	10.63	- 1.16
Clearwater	3.02	+ .06	14.06	- 3.82
Owyhee-Malheur	1.00	+ .15	5.68	+ .01

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1963-77) drainage division average.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average /

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

#Bear Mountain	5400	3/25	122	47.6	45.7	64.2*
Halverson Creek	4850	3/25	106	41.2	35.0	44.2*
Smith Creek	4800	3/26	105	39.6	31.4	48.8

PEND OREILLE - PRIEST RIVER

Bear Mountain	5400	3/25	122	47.6	45.7	64.2*
Benton Meadow	2370	3/27	11	4.6	5.0	5.0
Benton Spring	4900	3/27	48	15.9	16.6	20.2
#Mosquito Ridge	5110	3/28	79	28.2	31.0	40.2
Schweitzer Bowl	4500	3/26	65	25.1	22.8	30.9*
Schweitzer Ridge	6200	3/26	123	52.4	32.0	47.8*

HAYDEN LAKE

Chilco Ridge	3650	3/28	8	2.3	6.2	--
Conie Ridge	3900	3/28	10	2.9	8.6	--
Corner Creek	3150	3/27	16	4.5	8.9	--
Sage Creek Saddle	4100	3/28	37	11.3	18.4	--

SPOKANE RIVER

Above Burke	4100	3/31	52	17.4	22.1	24.7*
Above Roland	4350	3/28	71	25.4	32.6	35.2*
Below Roland	3840	3/28	31	12.4	17.2	16.5*
Copper Ridge	4800	3/28	36	10.2	26.8	29.7
#Forty-nine Meadows	4840	3/28	66	19.7	24.7	32.5
Fourth of July Summit	3200	3/26	11	3.9	8.5	8.8
Granite Peak	6000	3/28	111	33.8	36.5	46.8
Kellogg Peak	5560	3/28	75	25.0	27.8	35.4
Lookout	5120	3/31	82	26.4	32.4	37.1
#Lost Lake	6080	3/28	127	40.3	40.5	61.8*
Lower Sands Creek	3400	3/28	37	11.5	19.2	21.9
Mosquito Ridge	5110	3/28	79	28.2	31.0	40.2
Roland Summit	5200	3/28	84	30.2	37.4	40.1*
Sherwin	3200	3/27	22	6.7	14.0	13.8
Sunset	5600	3/28	68	23.8	32.0	36.2

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	3340	3/26	0	0.0	2.0	4.4
East Twin	4050	3/26	14	4.2	11.4	9.8

(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year Average. (1) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^{1/}
Howard Creek	3500	3/26	3	0.7	2.7	3.0*
Moscow Mountain	4360	3/26	35	11.0	20.0	18.0
West Twin	4250	3/26	6	2.0	5.7	9.1

CLEARWATER

Breezy Saddle	5000	3/28	74	21.6	25.6	--
Buck Meadows	5650	3/28	77	21.4	23.6	31.2*
Cayuse Airstrip	3500	3/28	21	5.2	9.7	9.8
Coolwater Mountain	6200	3/28	95	28.7	32.0	33.0
Crater Meadows	6100	3/28	107	34.6	37.8	46.3
Crooked Fork	3600	3/28	25	8.5	11.0	14.1*
Elk Butte	5420	3/28	83	25.4	--	38.8
Fish Lake Airstrip	5650	3/28	103	32.0	35.7	41.2
Forty-nine Meadows	4840	3/28	66	19.7	24.7	32.5
Goat Lake	6500	3/28	120	38.2	40.4	49.3
#Granite Peak	6000	3/28	111	33.8	36.5	46.8
Hemlock Butte	5500	3/28	107	35.0	38.9	51.3
#Hoodoo Basin	Mont. 6000	3/31	120	47.2	46.1	53.6*
#Hoodoo Creek	Mont. 5900	3/31	111	42.8	45.1	49.9
Kit Carson Pasture	4950	3/31	26	8.7	9.6	9.1
Lolo Pass	5240	3/28	75	26.3	32.5	32.6
Lost Lake	6080	3/28	127	40.3	40.5	61.8*
Mountain Meadows	6300	3/28	61	16.6	18.0	26.1*
#Nez Perce Pass	Mont. 6575	3/31	43	13.8	18.6	19.0
Pierce Ranger Station	3170	3/28	20	6.9	9.4	10.6
Savage Pass	6170	3/28	69	24.8	27.1	28.6
Shanghai Summit	4600	3/28	55	16.0	23.7	27.2

SALMON RIVER











#Banner Summit	7040	3/28	87	32.2	21.3	--
Bear Basin	5350	3/28	64	21.5	--	--
Big Creek Summit	6600	3/28	116	41.8	27.5	37.5
Borah (A)	8250	3/29	27	7.3	4.6	--
#Boulder Creek	5500	3/31	54	18.0	19.6	25.1
Brundage Mountain	7560	3/28	130	52.2	35.5	48.6*
#Deadwood Summit	6750	3/28	130	51.1	31.6	47.5
Double Springs Pass (A)	8400	3/29	36	9.7	6.7	11.1*
#Galena Summit	8780	3/31	74	23.7	16.1	25.2
#Gibbons Pass	Mont. 7100	3/31	61	20.4	22.0	24.8
Leatherman Pass	9800	3/29	64	19.8	19.4	26.1*
#Lemhi Pass	Mont. 7480	3/28	34	9.5	10.0	9.9
#Lemhi Ridge	Mont. 8100	3/28	38	10.4	10.6	10.9*
Mill Creek Summit	8800	3/29	64	21.8	15.6	24.1
Moose Creek	6200	3/27	43	12.2	15.8	17.1
Morgan Creek	7580	3/31	45	12.8	11.1	14.9
Morse Creek Sawmill	7120	3/29	37	9.7	--	9.5

(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent

The map illustrates the Snake River region in Idaho, highlighting the following features:

- Counties:** Bonner, Kootenai, Benewah, Latah, Nez Perce, Shoshone, and Blaine.
- Cities and Towns:** Lewiston, Spalding, Winchester, Riggins, Whitebird, Grangeville, and Council.
- Rivers and Lakes:** Snake River, Priest River, Clearwater River, and various lakes including Priest Lake, Coeur d'Alene, and Shoshone Lake.
- Highways:** U.S. 95, U.S. 96, and U.S. 10.
- Geographical Features:** Schweitzer Bowl, Schweitzer Ridge, and various mountain ranges and ridges.
- Other Labels:** "SNAKE RIVER" in large letters across the center, and "CANADA" at the top.



- | | |
|---|--------------------------------------|
|  | Watershed Boundary |
|  | Sail Conservation District Bdry. |
|  | County Baundary |
|  | Forecast Paint |
|  | Snow Course |
|  | Snow Course and Snow Pressure Pillow |
|  | Snow Pressure Pillow |
|  | Aerial Snow Depth Gage |
|  | Sail Maisture Station |
|  | Temperoture Gage |
|  | Precipitation Gage |
|  | Radio Telemetry |



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

UPPER COLUMBIA BASIN

KOOTENAI RIVER

16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800

PEND OREILLE - PRIEST RIVER

16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6200

HAYDEN CREEK

16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100

SPOKANE RIVER

15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	3	46N	6E	3840
16B2	I	Copper Ridge	6	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	6160
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28	42N	1E	3200
15B9ASP	I	Sunset	33	49N	5E	5600

LOWER SNAKE BASIN

PALOUSE RIVER

16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P	I	West Twin	14	40N	5W	4250

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

CLEARWATER RIVER

15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	I	Forty-nine Meadows	6	43N	5E	4880
14C9A	I	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 & 9	29N	3E	5600

SALMON RIVER

13E19MA	I	Above Gilmore	13	13N	26E	8250
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	I	Copes Camp	36	18N	22E	7500
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	25	13N	26E	9200
14E1MAP	I	Mill Creek Summit	8	13N	17E	8800
13D16	I	Moose Creek	14	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	35	10N	13E	6550
13E16A	I	Schwartz Lake	34	18N	22E	8500
14E3A	I	Twin Peaks	28	15N	17E	9170
14F4AP	I	Vienna Mine	1	5N	13E	8950
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average /
Perreau Meadows	8000	3/31	56	16.2	15.6	--
Redfish Lake Flat	6550	3/26	43	14.4	6.3	10.9*
#Rock Flat Summit	5340	3/28	59	18.2	15.8	19.6
#Secesh Summit	6520	3/27	105	43.3	28.7	37.2*
#Squaw Flat	6240	3/26	76	25.2	--	--
#Squaw Meadow	5900	3/27	108	45.1	29.0	37.4
Twin Peaks (A)	9170	3/29	67	22.8	--	28.0
Vienna Mine	8950	3/28	106	41.1	26.6	38.7*
Williams Creek Summit	7800	3/31	42	10.8	11.6	13.5

LEMHI RIVER

Above Gilmore	8250	3/29	36	9.2	8.4	10.6
Aspen-Hall Pass (A)	8110	3/29	50	11.8	7.6	10.6*
Copes Camp	7500	3/29	34	9.4	8.0	8.8
Hall Creek	7560	3/29	33	8.2	5.0	5.9*
Meadow Lake	9200	3/29	56	16.0	16.7	20.8
Schwartz Lake	8500	3/29	46	13.1	12.3	13.8

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Station	6750	3/28	8	3.2	5.0	3.2
Hilts Creek	8000	3/27	44	12.2	10.6	--
Lost Garfield	6600	3/28	13	4.2	3.2	3.0
Moonshine	7500	3/28	35	9.4	10.1	11.2
Sawmill Canyon	6900	3/28	28	8.2	7.4	8.1
Wet Creek Summit	7760	3/27	41	11.4	10.6	13.6

BIG LOST RIVER

Bear Canyon	7920	3/25	65	20.0	12.1	19.9
Copper Basin	7650	3/25	33	9.7	6.2	10.9
Dry Fork	7340	3/26	49	17.4	11.6	16.9*
Fishpole Lake	9350	3/25	73	24.9	14.8	21.1*
Iron Bog	7650	3/26	45	14.8	12.6	14.1
Leadbelt	6800	3/26	35	10.6	6.5	9.4
#Leatherman Pass	9800	3/29	64	19.8	19.4	26.1*
Lost-Wood Divide	7900	3/25	68	24.3	14.5	24.8
Stickney Mill	7450	3/25	39	10.8	6.2	10.6

FISH CREEK

Iron Mine Creek	6370	3/25	40	12.6	9.4	10.5
Telfer Ranch	6000	3/25	24	8.7	6.1	6.8

(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year
Average. (A) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent.
(R) Radioactive Gage snow-water equivalent

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average /

LITTLE WOOD RIVER

#Bear Canyon	7920	3/25	65	20.0	12.1	19.9
Garfield Ranger Station	6560	3/29	40	13.9	7.4	10.2
Muldoon	6300	3/29	27	9.5	6.2	7.1
Swede Peak	7640	3/29	62	20.2	12.4	18.1

BIG WOOD RIVER

Camas Creeks Divide	5720	3/26	34	12.5	4.8	8.8*
Chimney Creek	6400	3/26	45	16.8	9.1	--
#Couch Summit	6850	3/26	65	21.7	13.0	18.7
Dollarhide Summit	8400	3/28	74	25.9	18.0	25.1
Galena	7300	3/31	56	19.5	13.1	19.5
Galena Summit	8780	3/31	74	23.7	16.1	25.2
Graham Ranch	6280	3/31	48	15.6	11.1	14.4
Hyndman	7440	3/25	51	16.7	10.6	--
#Lost-Wood Divide	7900	3/25	68	24.3	14.5	24.8
Mascot Mine	7760	3/25	50	15.6	11.9	15.5
Mount Baldy	9000	3/28	71	20.2	14.8	21.4
Soldier Ranger Station	6100	3/26	32	11.6	7.3	10.3
#Vienna Mine	8950	3/28	106	41.1	26.6	38.7*

CANYON CREEK

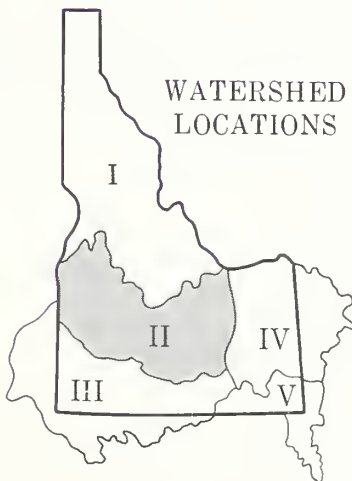
Bennett Mountain	6650	3/26	54	17.2	14.8	17.5
#Camas Creeks Divide	5720	3/26	34	12.5	4.8	8.8*
Little Camas Flat	4950	3/26	9	2.7	0.0	4.0

BOISE RIVER

Atlanta Summit	7500	3/28	104	37.1	25.2	36.2
Atlanta Town Site	5280	3/28	32	12.1	--	--
Bad Bear	5500	4/1	38	15.1	9.9	13.9
#Bennett Mountain	6650	3/26	54	17.2	14.8	17.5
#Bogus Basin	6340	4/1	85	30.5	20.2	24.5
Bogus Basin Road	5520	4/1	10	3.5	0.0	2.2
#Camas Creeks Divide	5720	3/26	34	12.5	4.8	8.8*
#Chimney Creek	6400	3/26	45	16.8	9.1	--
Couch Summit	6850	3/26	65	21.7	13.0	18.7
Deadman Gulch	5600	3/30	50	16.2	14.2	16.8*
#Dollarhide Summit	8400	3/28	74	25.9	18.0	25.1
Graham Guard Station	5690	3/28	47	16.6	11.0	--
Jackson Peak	7070	3/28	98	35.0	22.8	33.1
#Little Camas Flat	4950	3/26	9	2.7	0.0	4.0
Moore's Creek Summit	6100	4/1	96	35.6	23.8	33.6
Prairie	4800	3/31	0	0.0	0.0	3.4
Road Creek	5550	3/28	30	10.1	0.0	9.2*

(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pylon snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN NORTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- ⊙ Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- † Aerial Snow Depth Gage
- ⌒ Soil Moisture Station
- ⌒ Temperature Gage
- ⌒ Precipitation Gage
- ⌒ Radio Telemetry

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7500
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7760

BIG LOST RIVER

13F3	I	Bear Canyon	22	5N	21E	7920
13F2A	I	Copper Basin	25	6N	21E	7650
13F3A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	25	6N	18E	7900
14F2A	I	Stickney Mill	9	6N	19E	7450
13F1	I	White Knob	25	7N	23E	7700

BIG WOOD RIVER

15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	9	3N	15E	8400
14F1M	I	Galena	2	6N	15E	7440
14F12MPS	I	Galena Summit	5	6N	15E	8780
14F5	I	Graham Ranch	10	5N	17E	6280
14F7	I	Mascot Mine	8	4N	20E	7760
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

13F4	I	Garfield Ranger Station	11	3N	21E	6560
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7640

FISH CREEK

13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

BOISE RIVER

15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5520
14F10	I	Couch Summit	9	2N	14E	6850
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7070
15F1MPSR	I	Moores Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4800
15F3A	I	Road Creek	5	5N	8E	5550
15FAPS	I	Trinity Mountain	6	3N	9E	7780

CANYON CREEK

15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950

PAYETTE RIVER

16F2PS	I	Bogus Basin	16	5N	3E	6340
15E8PSR	I	Cozy Cove	17	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E4AS	I	Deadwood Summit	23	14N	7E	6800
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5340
15D1	I	Secesh Summit	4	21N	4E	6520
15D2	I	Squaw Meadow	17	21N	4E	5900
16E3	I	Tripod Summit	17	11N	3E	5200

WEISER RIVER

16D1P	I	Boulder Creek	16	20N	1W	5500
16E2	I	Placer Creek	15 & 16	17N	3W	6000

MANN CREEK

16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average ^{1/}
#Soldier Ranger Station	6100	3/26	32	11.6 ¹	7.3	10.3
Trinity Mountain	7780	3/28	121	45.2	30.2	43.2
#Vienna Mine	8950	3/28	106	41.1	26.6	38.7*

PAYETTE RIVER

Banner Summit	7040	3/28	87	32.2	21.3	--
#Bear Basin	5350	3/28	64	21.5	--	--
#Big Creek Summit	6600	3/28	116	41.8	27.5	37.5
Bogus Basin	6340	4/1	85	30.5	20.2	24.5
#Brundage Mountain	7560	3/28	130	52.2	35.5	48.6*
Cozy Cove	5400	3/28	46	17.8	11.0	16.6
Crawford Ranger Station	4800	3/28	18	6.5	3.4	6.1
#Deadman Gulch	5600	3/30	50	16.2	14.2	16.8*
Deadwood Airstrip	5440	3/28	50	17.9	11.4	15.6
Deadwood Summit	7000	3/28	130	51.1	31.6	47.5
#Jackson Peak	7070	3/28	98	35.0	22.8	33.1
Lake Fork	6000	3/27	47	15.1	15.3	16.9
Rock Flat Summit	5340	3/28	59	18.2	15.8	19.6
Secesh Summit	6520	3/27	105	43.3	28.7	37.2*
#Squaw Flat	6240	3/26	76	25.2	--	--
Squaw Meadow	5900	3/27	108	45.1	29.0	37.4
Tripod Summit	5200	3/26	55	19.4	14.7	19.7

WEISER RIVER

Boulder Creek	5500	3/31	54	18.0	19.6	25.1
Placer Creek	6000	3/29	64	24.2	17.7	18.8
Squaw Flat	6240	3/26	76	25.2	--	--

MANN CREEK

Bear Saddle	6180	3/27	74	27.0	--	--
Mann Creek	6080	3/27	71	25.6	23.2	27.7*
Robinson Creek Ridge	6220	3/27	59	20.0	19.0	21.3*
Sturgill Ridge	6680	3/27	78	31.2	25.7	32.6*
Thorson Cabin	5320	3/27	47	18.0	13.4	14.3*

(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year Average. (1) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent. (K) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ¹

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp		7750	3/29	53	17.8	16.0	15.8
Clear Creek Meadows	Utah	9050	3/29	65	19.8	20.4	23.6
Howell Canyon		7980	3/29	72	26.9	19.3	26.1
Indian Grove		7560	3/29	52	15.6	13.3	--
Logger Springs		8100	3/29	67	21.6	17.0	--
One Mile Summit	Utah	7330	3/29	26	7.5	5.9	7.6
Sublett		6000	3/29	34	12.2	10.5	11.1

GOOSE CREEK

Badger Gulch		6660	3/29	48	15.7	14.6	13.1
Bostetter Ranger Station		7500	3/29	64	20.6	19.6	20.2
#Indian Grove		7580	3/29	52	15.2	13.3	--
#Logger Springs		8120	3/29	67	21.6	17.0	--
Vi Pont	Utah	7670	3/29	52	17.0	16.5	15.1*

SALMON FALLS CREEK

#Bear Creek	Nev.	7800	4/1	78	23.9	19.2	21.3
Cedar Creek		7000	4/1	38	11.5	9.9	10.0
Deadline		6900	4/1	90	34.2	21.8	22.3
#Fox Creek	Nev.	6800	4/1	41	12.8	9.2	9.9*
Goat Creek	Nev.	8800	4/1	72	22.2	14.1	18.6
#Hummingbird Springs	Nev.	8940	4/1	87	28.1	18.0	23.7
Magic Mountain		6700	4/1	65	21.3	19.4	19.2
#Pole Creek Rgr. Sta.		8330	4/1	77	24.2	14.3	22.5
Shoshone Basin		5740	4/1	22	7.7	10.8	5.1*
Wilson Creek		7500	4/1	52	16.0	10.0	11.9

BRUNEAU RIVER

Bear Creek	Nev.	7800	4/1	78	23.9	19.2	21.3
Fox Creek	Nev.	6800	4/1	41	12.8	9.2	9.9*
Hummingbird Springs	Nev.	8940	4/1	87	28.1	18.0	23.7
Pole Creek Rgr. Sta.	Nev.	8330	4/1	77	24.2	14.3	22.5
#Seventy-six Creek	Nev.	7100	4/1	48	15.4	12.3	11.4

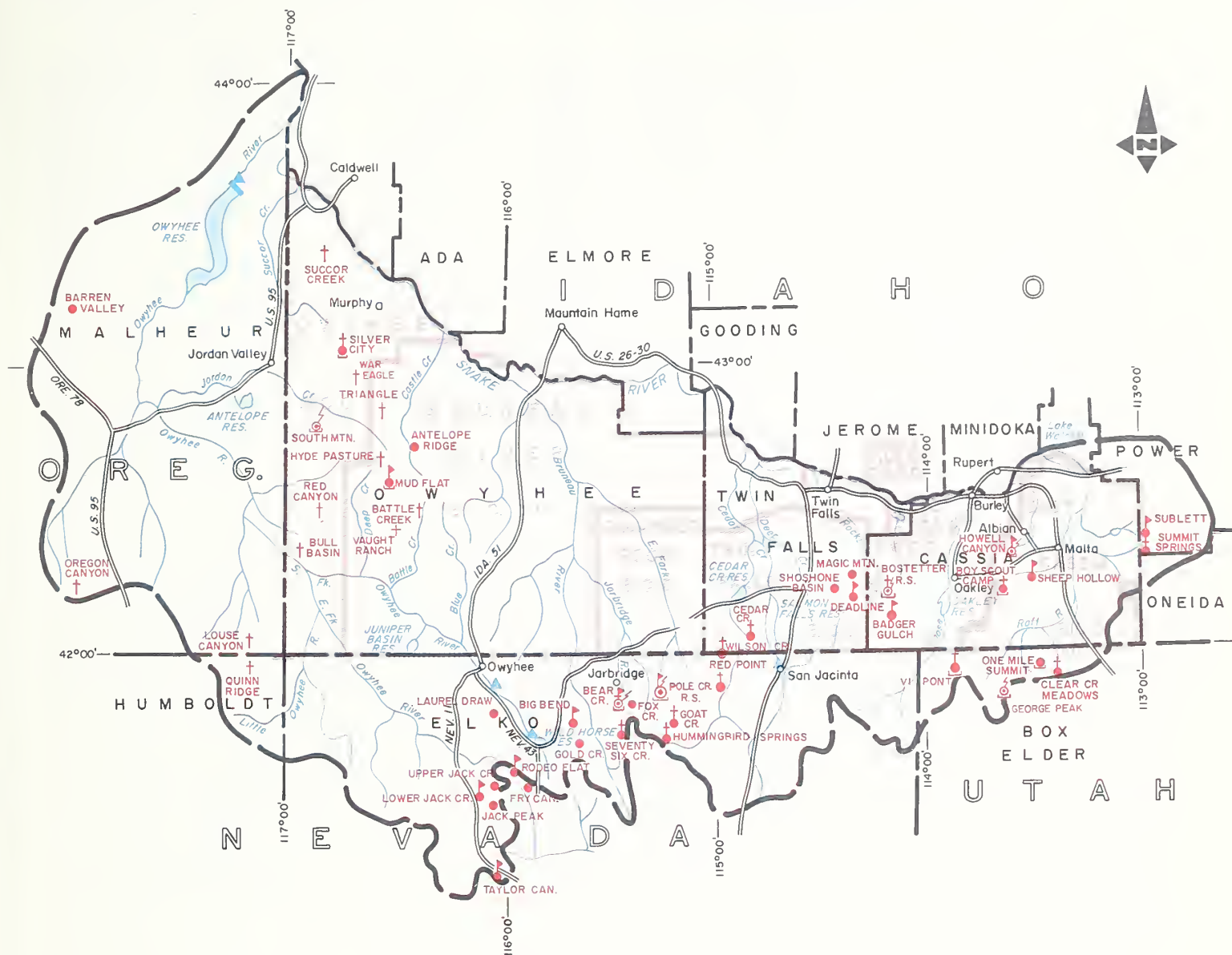
OWYHEE RIVER

Antelope Ridge		6150	3/26	10	4.4	3.4	6.2
Battle Creek (A)		5700	3/25	0	0.0	0.0	1.7
#Bear Creek	Nev.	7800	4/1	78	23.9	19.2	21.3
Bull Basin (A)		5600	3/25	T	0.1	0.0	0.4
#Fox Creek	Nev.	6800	4/1	41	12.8	9.2	9.9*

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MIDDLE SNAKE RIVER BASIN SOUTHSIDE

25 0 25 50 75
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- ⊙ Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- † Aerial Snow Depth Gage
- ▶ Soil Moisture Station
- ¶ Temperature Gage
- ⌋ Precipitation Gage
- ⚡ Radio Telemetry

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	3	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400

GOOSE - TRAPPER CREEK

14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
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BRUNEAU RIVER

15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330

OWYHEE RIVER

16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE 1/4 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	13	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	I	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	N 1/2 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

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SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^{1/}
Hyde Pasture (A)	5800	3/25	6	2.3	0.0	3.2
Mud Flat	5720	3/26	16	8.0	6.0	4.9
Red Canyon (A)	6650	3/25	29	11.0	9.5	5.0
#Seventy-six Creek Nev.	7100	4/1	48	15.4	12.3	11.4
Silver City	6400	3/26	48	16.1	14.4	15.4
South Mountain	6340	3/31	54	20.4	15.8	13.0
Succor Creek (A)	6100	3/25	27	9.2	--	5.0
Vaught Ranch (A)	5950	3/25	0	0.0	0.0	1.7*
War Eagle (A)	7700	3/25	81	27.5	28.5	25.1*

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

Blue Ledge Mine	6700	3/28	43	14.4	15.2	17.8
Camp Creek	6800	4/1	39	10.2	9.4	12.0
Kilgore	6200	3/28	33	11.2	12.4	11.5

HENRYS FORK RIVER

Big Springs	6400	3/27	55	18.3	21.0	22.0
Black Canyon	7850	3/27	99	34.8	35.6	35.4*
Black Moose	8130	3/27	103	37.0	39.6	40.3*
Grassy Lake Wyo.	7230	2/27	90	31.3	38.9	36.6
Island Park	6290	3/27	49	16.0	19.8	17.2
Latham Springs	7650	3/27	86	31.2	34.6	34.8
Lucky Dog	6900	3/28	65	22.2	26.2	26.0
Sawtell Mountain	8720	3/27	111	35.5	35.6	35.1*
Targhee Pass	7000	3/28	44	11.3	16.6	17.1*
Valley View	6740	3/27	50	15.2	19.5	18.4
White Elephant	7700	3/28	83	26.4	24.4	25.6*

TETON RIVER

Darby Canyon Wyo.	8250	4/1	71	23.2	23.6	24.0*
Freds Mountain Wyo.	8150	3/28	70	23.8	23.8	20.7*
Indian Meadows Wyo.	8240	3/31	100	35.8	36.8	37.4*
Jackpine Creek Wyo.	7350	3/31	62	20.1	20.6	23.0*
McRenolds Reservoir	6800	3/31	57	16.8	22.6	20.7*
Phillips Bench Wyo.	8200	3/24	75	26.0	33.0	30.6*
Pine Creek Pass	6750	3/28	47	14.6	18.8	18.3
State Line	6650	3/28	45	14.2	18.4	15.3
Teton Pass W.S. Wyo.	8400	3/24	65	20.7	30.4	27.7*

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b
WILLOW CREEK						
Aspen Grove	6500	3/28	46	15.1	13.5	12.1*
Birch Creek	6800	3/28	34	11.6	13.0	11.4*
Blue Ridge	6800	3/29	58	21.7	17.3	--
Bone	6200	3/29	21	7.8	8.8	7.2*
Brockman Station	6430	3/28	34	11.7	13.6	--
Hell Creek	7100	3/28	46	15.5	16.4	--
Mud Creek	7150	3/29	69	24.3	16.6	--
Sheep Mountain	6570	3/29	40	14.4	14.0	13.9*
Tex Creek	6650	3/28	40	10.8	12.0	9.7*

BLACKFOOT

Austin Bros. Ranch	6400	3/28	25	9.0	9.4	8.9
Johnson Creek	6730	3/28	54	16.3	--	--
Slug Creek Divide	7230	3/26	58	19.5	18.0	18.0
Somsen Ranch	7000	3/28	52	15.4	17.8	15.1
Sulphur Peak	7070	3/28	58	18.5	--	--
Wood Canyon Divide	7450	3/28	64	20.3	--	--

PORTNEUF RIVER

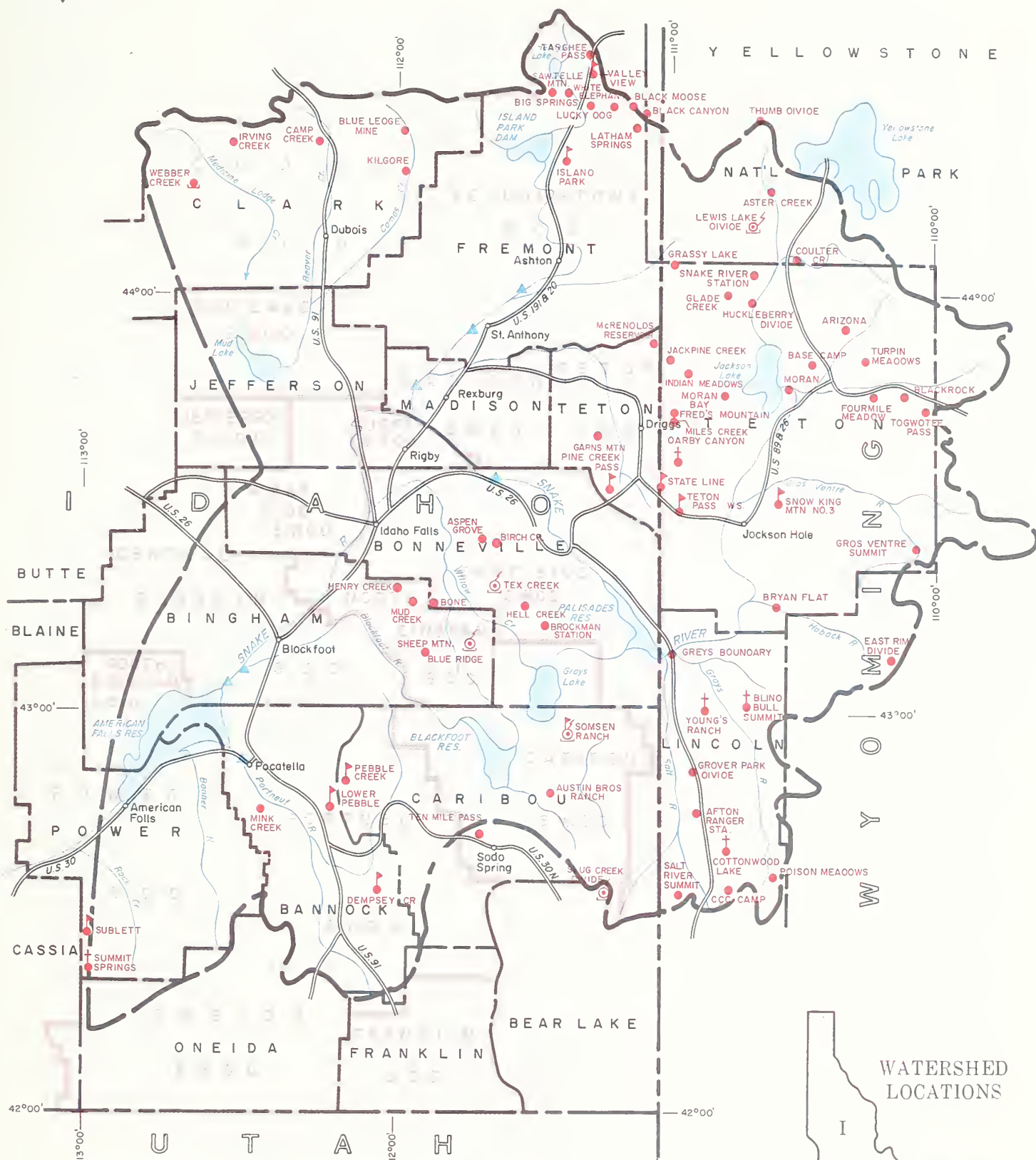
Beaverdam Creek	6120	3/29	32	12.2	--	--
Dempsey Creek	6100	3/29	44	13.7	15.4	13.0
East Creek	7000	3/29	39	12.0	--	--
Johnson Creek	6730	3/28	54	16.3	--	--
Lower Pebble	5800	3/29	45	15.0	17.5	13.3*
Mink Creek	6300	3/30	68	20.9	19.8	18.3
Pebble Creek	6550	3/29	56	20.3	17.4	16.7
Sedgwick Peak	7850	3/29	64	21.3	--	--
#Sulphur Peak	7070	3/28	58	18.5	--	--
#Wood Canyon Divide	7450	3/28	64	20.3	--	--

(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

UPPER SNAKE RIVER BASIN



25 0 25 50
SCALE IN MILES

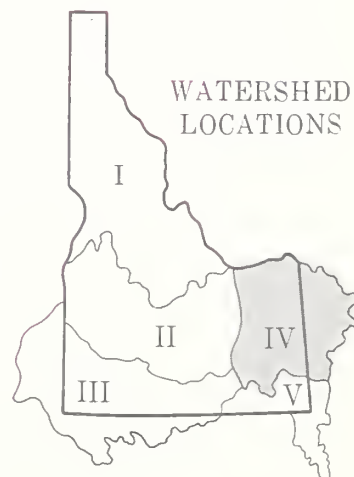


LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point

- Snow Course
- ⊙ Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
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UPPER SNAKE RIVER BASIN

SNAKE RIVER - WYOMING

10G4	Wy	Afton Ranger Station	30		32N 118W	6200
10F1	Wy	Arizona	3		46N 115W	6850
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700
10F2	Wy	Base Camp	20		46N 113W	6900
10F7	Wy	Blackrock	4		44N 111W	8600
10G2A	Wy	Blind Bull	6		34N 115W	8750
10F14	Wy	Bryan Flat	9		38N 115W	6250
10G7	Wy	CCC Camp	9		29N 118W	7500
10G5A	Wy	Cottonwood Lake	25		31N 118W	7500
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600
10F17MP	Wy	East Rim Divide #2	32		37N 111W	7950
10F6	Wy	Four Mile Meadows	35		45N 112W	7770
10E13	Wy	Glade Creek	12		48N 116W	7200
10F18	Wy	Greys Boundary	33		37N 118W	5800
10F19	Wy	Gros Ventre Summit	36		40N 111W	8750
10G3	Wy	Grover Park Divide	27		33N 118W	7500
10E14	Wy	Huckleberry Divide	32		48N 115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900
10F4MP	Wy	Moran	8 & 17		45N 114W	6800
10F3	Wy	Moran Bay	14		45N 116W	6800
10G6	Wy	Poison Meadows	29		30N 116W	8500
10G8P	Wy	Salt River Summit	32		29N 118W	7900
10E12MP	Wy	Snake River Station	9		48N 115W	6780
10F20M	Wy	Snow King Mountain #3	4		40N 117W	7600
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900
10F9MP	Wy	Togwotee Pass	29		44N 110W	9600
10F5	Wy	Turpin Meadows	14		45N 112W	6930
10G1A	Wy	Young's Ranch	26		34N 116W	6530

HENRYS FORK RIVER

11E9	I	Big Springs	4		13N 44E	6400
11E18	I	Black Canyon	11		13N 45E	7850
11E19	I	Black Moose	33		14N 45E	8125
10E15	Wy	Grassy Lake	6		48N 117W	7230
11E10M	I	Island Park	28		13N 43E	6290
11E16	I	Latham Springs	9		13N 45E	7650
11E14	I	Lucky Dog	2		13N 45E	6900
11E32	I	Sawtell Mountain	7		14N 43E	8720
11E34	I	Targhee Pass	32		16N 44E	7000
11E3M	I	Valley View	7		15N 44E	6740
11E36	I	White Elephant	17		14N 43E	7700

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

TETON RIVER

10F21	Wy	Darby Canyon	28		43N 118W	8250
10F22	Wy	Freds Mountain	12		44N 118W	8150
11F13	I	Garns Mountain	20		4N 44E	8300
10F25	Wy	Indian Meadows	31		46N 117W	8240
10F26	Wy	Jackpine Creek	15		46N 118W	7350
11F12	I	McRenolds Reservoir	5		7N 46E	6800
10F27	Wy	Miles Creek	13		44N 118W	7300
11F2M	I	Pine Creek Pass	24		3N 44E	6750
11F1M	I	State Line	32		3N 46E	6650
10F13	Wy	Teton Pass W. S.	24		41N 118W	8400

CAMAS - BEAVER CREEK

11E11	I	Blue Ledge Mine	27		13N 38E	6700
12E3	I	Camp Creek	21		13N 36E	6800
11E12	I	Kilgore	6		12N 39E	6200

MEDICINE LODGE CREEK

12E4	I	Irving Creek	20		13N 33E	7035
12E5	I	Webber Creek	23		12N 32E	6700

WILLOW CREEK

11F10	I	Aspen Grove	36		2N 41E	6500
11F3	I	Birch Creek	36		2N 41E	6800
11F17I	I	Blue Ridge	35		2S 39E	6800
11F8	I	Bone	29		1S 40E	6250
11F16	I	Brockman Station	19		2S 43E	6430
11F15	I	Hell Creek	27		1S 42E	7100
11F14	I	Mud Creek	3		2S 39E	7150
11F11R	I	Sheep Mountain	30		2S 41E	6570
11F5R	I	Tex Creek	36		1N 42E	6650

SAND CREEK

11F6	I	Henry Creek	7		1S 39E	5650
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BLACKFOOT RIVER

11G3	I	Austin Brothers Ranch	28		7S 43E	6400
11G5PS	I	Slug Creek Divide	15		10S 44E	7225
11G1MS	I	Somsen Ranch	25		5S 43E	7000
11G29	I	Ten Mile Pass	8		8S 41E	6250

PORTNEUF RIVER

12G5	I	Dempsey Creek	18		10S 38E	6100
12G6M	I	Lower Pebble	7		8S 38E	5800
12G1	I	Mink Creek	33		7S 34E	6300
12G2M	I	Pebble Creek	34		7S 37E	6550

LEGEND

Numbering System (example)

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10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RAIOACTIVE GAGE

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average /

GREAT BASINBEAR RIVER

Emigrant Summit	7380	4/1	83	27.6	23.7	26.0
Emigration Canyon	6500	4/1	42	14.3	11.3	11.1

MONTPELIER CREEK

Giveout	6840	3/26	45	14.0	16.2	13.0
Little Beaver	6970	3/26	52	16.1	16.8	16.3
Lower Home Canyon	7640	3/27	50	15.3	14.9	14.9*
Montpelier Creek	6570	3/26	31	8.8	11.6	8.4
Upper Home Canyon	8560	3/27	74	25.0	22.6	25.1*
Whiskey Flat	6960	3/26	33	11.1	11.2	9.4

MINK CREEK

Christensen Ranch	5400	4/3	33	12.7	9.6	7.6
Dry Basin	7900	4/3	99	38.4	30.0	30.2
#Emigrant Summit	7380	4/1	83	27.5	23.7	26.0
Horseshoe Basin	8000	4/3	96	39.8	29.8	25.6
Liberty Spring	8600	4/4	117	40.7	40.4	39.8
Strawberry Creek	5800	4/1	39	12.3	13.0	10.2
Strawberry Mink Divide	6800	4/3	73	29.7	23.8	21.9

CUB RIVER

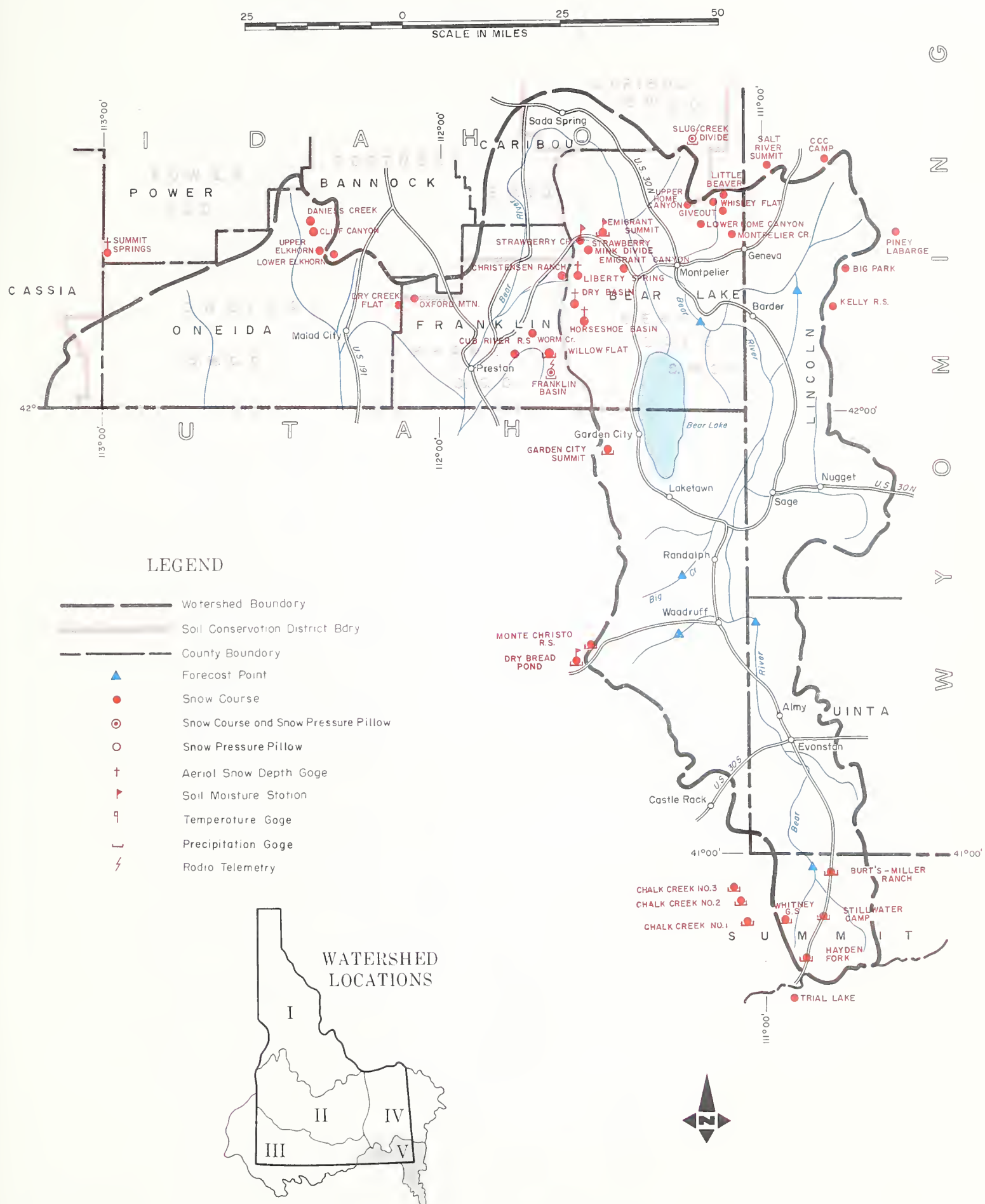
Cub River Rgr. Sta.	5400	4/3	26	10.4	9.8	6.9
#Franklin Basin	8000	4/3	82	32.1	27.8	28.2
Willow Flat	6100	4/3	48	20.4	19.4	14.8
Worm Creek	6660	4/3	66	25.2	21.1	--

MALAD RIVER

Cliff Canyon	7200	4/4	34	10.2	11.0	--
Daniels Creek	6400	4/4	26	9.6	6.9	--
Dry Creek Flat	6480	4/4	29	10.4	7.6	5.3
Lower Elkhorn	7000	4/4	52	18.9	12.2	14.0*
Oxford Mountain	6800	4/4	38	12.3	12.5	9.5
Upper Elkhorn	7100	4/4	71	22.0	19.2	19.5*

(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillon snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

GREAT BASIN



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660

MALAD RIVER

12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

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